

CLAIMS

1. A security system comprising an attachment (1) for mounting on a wall or other perimeter barrier (2), the attachment having first and second parts (4, 6), the first part (4) being fixable to the wall or barrier and the second part (6) being mounted for relative movement on said first part upon application of a force thereto whereby movement of the second part generates a signal to activate a visual and/or audible alarm characterised in that the second part (6) has at least one pair of opposing members (40a, 40b) for partially overlapping a side of the first part (4) so as to retain said second part, the second part being sized so as to allow a limited range of movement with respect to said first part without its release therefrom.
2. A security system as claimed in claim 1 wherein the second part (6) is larger than the first part (4) whereby, in use, a gap (G) is created between said first and second parts.
3. A security system as claimed in claim 1 or 2 wherein the second part (6) is moveable with respect to the first part (4) in more than one plane.
4. A security system as claimed in claim 1, 2 or 3 wherein means for generating the signal is housed within the interior of the attachment.
5. A security system as claimed in any one of claims 1 to 4 wherein the first part has an upper side, an underside and opposing side walls (16) whereby, in use, the underside lies on the wall or barrier top and the side walls (16) run parallel with parallel edges of the wall or barrier top.
6. A security system as claimed in claim 5 wherein the underside is solid and the upper side is relieved of material or completely open to expose the interior of the first part.

7. A security system as claimed in claim 5 or claim 6 wherein the second part comprises opposing side walls (36) connected by a roof section (38), the opposing members extending from the free end of each side wall whereby, in use, the opposing side walls (36) lie parallel with the side walls (16) of the first part and the members partially overlap the underside of the first part.

8. A security system as claimed in claim 7 wherein the second part (6) is sized so as to provide a gap (G) between the upper side of the first part and the roof section (38) of the second part.

9. A security system as claimed in claim 7 or claim 8 wherein the second part (6) is sized so as to provide a gap (G) between the side walls (16) of the first part (4) and the side walls (36) of the second part.

10. A security system as claimed in any one of the preceding claims wherein one of the opposing members (40a) of the second part is narrower than the other (40b).

11. A security system as claimed in any one of claims 5 to 10 wherein the first part (4) has side walls connecting two end walls whereby, in use, the two end walls lie across the wall or barrier top and the side walls align with the edges of the wall or barrier top.

12. A security system as claimed in claim 11 wherein two parallel rims (48) extend from the underside of the first part for abutting opposing edges of the wall or barrier.

13. A security system as claimed in any one of claims 5 to 12 wherein the underside of the first part (4) is wider than the wall or barrier on to which it is mounted such that the first part extends beyond the edges of the wall or barrier.

14. A security system as claimed in any one of claims 5 to 12 wherein the first part (4) is mounted on a mounting plate that is attached to the wall or barrier, the first part being wider than the plate.

15. A security system as claimed in any one of claims 7 to 14 wherein the first part is provided with at least one spring (28) or other compressible object extending upwardly therefrom for supporting the roof section (38) of the second part.
16. A security system as claimed in any one of claims 7 to 14 wherein the first part (4) is constructed such as to provide an integral spring (72) for supporting the roof section of the second part.
17. A security system as claimed in any one of claims 5 to 16 wherein the first part (4) is in the form of a trapezoid with the side walls extending from the non-parallel sides of the trapezoid.
18. A security system as claimed in claim 17 wherein the second part (6) comprises two sloping side walls connected by a roof section, each side wall having a rim (40a, 40b) extending from the free edge thereof defining an opening in the second part.
19. A security system as claimed in claim 18 wherein each rim runs parallel with the roof section (38).
20. A security system as claimed in claim 18 or claim 19 wherein one rim (40b) is wider than the opposing rim (40a).
21. A security system as claimed in claims 18, 19 or 20 wherein the opening is dimensioned such as to allow the second part (6) to fit over the first part (4) at a particular orientation but require force to interlock the two parts together.
22. A security system as claimed in claim 21 when dependent from claim 17 wherein the opening is larger than the widest cross-sectional area of the first part, being the diagonal distance between the bottom corner and opposing top corner of the first part, but is smaller than the base or underside of the first part thereby requiring force to allow engagement or disengagement of the second part.

23. A security system as claimed in any one of the preceding claims further comprising a third part in the form of a cover (100) for attachment to the second part (6).

24. A security system as claimed in claim 23 wherein the third part (100) has an inner profile that corresponds to an outer profile of the second part (6) to enable the two parts to fit together.

25. A security system as claimed in any one of the preceding claims wherein the mechanism for detecting movement between said first and second parts is selected from at least one of a magnetic contact, laser, electronic pressure pad, micro switch, tilt switch, vibration/shock sensor, strain gauge and a load cell.

26. A security system as claimed in any one of claims 1 to 24 wherein at least one air tube (200) is provided between said first and second parts to detect movement therebetween.

27. A security system as claimed in claim 26 wherein the first part is provided with guides (202) for receiving the air tube.

28. A security system as claimed in claim 27 wherein the air tube (200) passes through a series of convolutions in each attachment.

29. A security system as claimed in claim 26, 27 or 28 wherein the air tube (200) is positioned such that an upper surface thereof contacts the inner profile of the second part at least at spaced apart intervals.

30. A security system as claimed in claim 26, 27 or 28 wherein a bridging member (90) is provided between said first and second parts to communicate movement of said second part to the air tube.

31. A security system as claimed in claim 30 wherein the bridging member (90) sits within the first part (4) and is unable to move laterally with respect thereto.

32. A security system as claimed in any one of claims 27 to 31 wherein the air tube (200) is in the general shape of a tube having an inverted U-shaped extension (208) for attaching the tube to the guides.

33. A security system as claimed in any one of claims 27 to 32 wherein more guides (202) are provided in each first part than air tubes whereby, one air tube can terminate in an air switch (210) and an additional air tube can be provided on one of the free guides.

34. A security system as claimed in claim 33 wherein at least some of the guides are provided with slots (214) at or near an entry to and/or exit from the first part to enable air tubes to be moved from one guide to another.

35. A security system comprising an attachment for mounting on a wall or other perimeter barrier, the attachment having first and second parts (4, 6), the first part (4) being mountable on the wall and the second part (6) being mounted for relative movement on said first part upon application of a force thereto whereby movement of the second part generates a signal to activate a visual and/or audible alarm characterized in that an air line (200) is provided between said first and second parts to detect said movement, the airline being located on guides (202) provided on said first or second parts.

36. A security system as claimed in any one of the preceding claims wherein multiple attachments are connected together to provide a security system that extends around an entire perimeter wall or barrier.